

**RISK OF BIAS IN INDIVIDUAL STUDIES**

<b>Paper count</b>	<b>References</b>	<b>Selection bias</b>	<b>Attrition bias</b>	<b>Reporting bias</b>	<b>Contamination of control group</b>	<b>Score</b>
		<i>Generation of randomization sequence</i>	<i>Incomplete outcome data/ dropout rates</i>	<i>Selective reporting of outcome data</i>	<i>If investigators made efforts to avoid contamination of the control group or not/if reported</i>	
<b>1</b>	Ollivier L, Romand O, Marimoutou C, Michel R, Pognant C, Todesco A, Migliani R, Baudon D, Boutin JP	1	1	0	1	<b>3</b>
<b>2</b>	Okeke CO, Quigley HA, Jampel HD, Ying GS, Plyler RJ, Jiang Y, Friedman DS.	1	1	1	1	<b>4</b>
<b>3</b>	Janson SL, McGrath KW, Covington JK, Cheng SC, Boushey HA.	1	1	0	0	<b>2</b>
<b>4</b>	Delmas P, Vrijens B, Eastell R, Roux C, Pols, HAP, Ringe JD, Grauer A, Cahall D, Watts NB	1	1	0	1	<b>3</b>
<b>5</b>	Sorensen JL, Haug NA, Delucchi KL, Gruber V, Kletter E, Batki SL, Tulskey JP, Barnett P, Hall S. Voucher reinforcement improves medication adherence in HIV-positive methadone patients: a randomized trial.	1	1	1	-1	<b>2</b>
<b>6</b>	De Geest S, Schäfer-Keller P, Denhaerynck K, Thannberger N, Köfer S, Bock A, Surber C, Steiger J. Supporting medication adherence in renal transplantation (SMART): a pilot RCT to improve adherence to immunosuppressive regimens	1	1	0	-1	<b>1</b>
<b>7</b>	Holzemer WL, Bakken S, Portillo CJ, Grimes R, Welch J, Wantland D, Mullan JT. Testing a nurse-tailored HIV medication adherence intervention.	0	0	0	0	<b>0</b>

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8	Brook OH, van Hout H, Stalman W, Nieuwenhuysse H, Bakker B, Heerdink E, de Haan M. A pharmacy-based coaching program to improve adherence to antidepressant treatment among primary care patients.	0	-1	1	-1	-1
9	Rudd P, Miller NH, Kaufman J, Kraemer HC, Bandura A, Greenwald G, Debusk RF. Nurse management for hypertension. A systems approach. Am J Hypertens. 2004Oct;17(10):921-7. PubMed PMID: 15485755.	1	1	1	1	4
10	Clowes JA, Peel NF, Eastell R. The impact of monitoring on adherence and persistence with antiresorptive treatment for postmenopausal osteoporosis: a randomized controlled trial.	1	-1	1	1	2
10	Clowes JA, Peel NF, Eastell R. The impact of monitoring on adherence and persistence with antiresorptive treatment for postmenopausal osteoporosis: a randomized controlled trial.	1	-1	1	1	2
11	Janson SL, Fahy JV, Covington JK, Paul SM, Gold WM, Boushey HA. Effects of individual self-management education on clinical, biological, and adherence outcomes in asthma.	0	0	1	1	2
12	Safren SA, Hendriksen ES, Desousa N, Boswell SL, Mayer KH. Use of an on-line pager system to increase adherence to antiretroviral medications.	0	-1	0	1	0

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13	Onyirimba F, Apter A, Reisine S, Litt M, McCusker C, Connors M, ZuWallack R. Direct clinician-to-patient feedback discussion of inhaled steroid use: its effect on adherence.	0	-1	1	0	0
14	Mounier-Vehier C, Bernaud C, Carré A, Lequeuche B, Hotton JM, Charpentier JC. Compliance and antihypertensive efficacy of amlodipine compared with nifedipine slow-release	1	0	0	1	2
15	Charles T, Quinn D, Weatherall M, Aldington S, Beasley R, Holt S. An audiovisual reminder function improves adherence with inhaled corticosteroid therapy in asthma.	1	1	1	1	4
16	Simoni JM, Huh D, Frick PA, Pearson CR, Andrasik MP, Dunbar PJ, Hooton TM. Peer support and pager messaging to promote antiretroviral modifying therapy in Seattle: a randomized controlled trial.	1	1	1	1	4
16	Simoni JM, Huh D, Frick PA, Pearson CR, Andrasik MP, Dunbar PJ, Hooton TM. Peer support and pager messaging to promote antiretroviral modifying therapy in Seattle: a randomized controlled trial.	1	1	1	1	4
16	Simoni JM, Huh D, Frick PA, Pearson CR, Andrasik MP, Dunbar PJ, Hooton TM. Peer support and pager messaging to promote antiretroviral modifying therapy in Seattle: a randomized controlled trial.	1	1	1	1	4
17	Brown I, Sheeran P, Reuber M. Enhancing antiepileptic drug adherence: a randomized controlled trial.	-1	0	0	1	0

Paper count	References	Selection bias	Attrition bias	Reporting bias	Contamination of control group	Score
18	Udelson JE, Pressler SJ, Sackner-Bernstein J, Massaro J, Ordroneau P, Lukas MA, Hauptman PJ. Adherence with once daily versus twice daily carvedilol in patients with heart failure: the Compliance And Quality of Life Study Comparing Once-Daily Controlled-	0	1	1	1	3
19	Klein A, Otto G, Krämer I. Impact of a pharmaceutical care program on liver transplant patients' compliance with immunosuppressive medication: a prospective, randomized, controlled trial using electronic monitoring.	0	0	1	0	1
20	Düsing R, Handrock R, Klebs S, Tousset E, Vrijens B. Impact of supportive measures on drug adherence in patients with essential hypertension treated with valsartan: the randomized, open-label, parallel group study VALIDATE.	1	1	0	1	3
21	Safren SA, O'Cleirigh C, Tan JY, Raminani SR, Reilly LC, Otto MW, Mayer KH. A randomized controlled trial of cognitive behavioral therapy for adherence and depression (CBT-AD) in HIV-infected individuals.	0	0	1	1	2
22	Maitland D, Jackson A, Osorio J, Mandalia S, Gazzard BG, Moyle GJ;EpiVir-Ziagen (EZ) Switch Study Team. Switching from twice-daily abacavir and lamivudine to the once-daily fixed-dose combination tablet of abacavir and lamivudine improves patient adheren	1	1	0	1	3
23	Bogner HR, de Vries HF. Integration of depression and hypertension treatment: a pilot, randomized controlled trial.	0	1	0	1	2

Paper count	References	Selection bias	Attrition bias	Reporting bias	Contamination of control group	Score
24	Boyle BA, Jayaweera D, Witt MD, Grimm K, Maa JF, Seekins DW. Randomization to once-daily stavudine extended release /lamivudine/efavirenz versus a more frequent regimen improves adherence while maintaining viral suppression. HIV Clin Trials. 2008 May-Jun;	0	1	0	1	2
25	Koenig LJ, Pals SL, Bush T, Pratt Palmore M, Stratford D, Ellerbrock TV. Randomized controlled trial of an intervention to prevent adherence failure among HIV-infected patients initiating antiretroviral therapy.	1	1	0	-1	1
26	Dilorio C, McCarty F, Resnicow K, McDonnell Holstad M, Soet J, Yeager K, Sharma SM, Morisky DE, Lundberg B. Using motivational interviewing to promote adherence to antiretroviral medications: a randomized controlled study.	1	0	1	0	2
27	Parianti JJ, Massari V, Reliquet V, Chaillot F, Le Moal G, Arvieux C, Vabret A, Verdon R; POSOVIR Study Group. Effect of twice-daily nevirapine on adherence in HIV-1-infected patients: a randomized controlled study.	0	0	0	1	1
28	Qureshi NN, Hatcher J, Chaturvedi N, Jafar TH; Hypertension Research Group. Effect of general practitioner education on adherence to antihypertensive drugs: cluster randomised controlled trial.	1	1	1	1	4

Paper count	References	Selection bias	Attrition bias	Reporting bias	Contamination of control group	Score
29	Grosset KA, Grosset DG. Effect of educational intervention on medication timing in Parkinson's disease: a randomized controlled trial.	1	0	1	0	2
30	Simoni JM, Pantalone DW, Plummer MD, Huang B. A randomized controlled trial of a peer support intervention targeting antiretroviral medication adherence and depressive symptomatology in HIV-positive men and women.	1	1	1	1	4
31	Burgess SW, Sly PD, Cooper DM, Devadason SG. Novel spacer device does not improve adherence in childhood asthma.	1	1	0	1	3
32	Kardas P. Compliance, clinical outcome, and quality of life of patients with stable angina pectoris receiving once-daily betaxolol versus twice daily metoprolol: a randomized controlled trial.	0	1	1	1	3
33	Murray MD, Young J, Hoke S, Tu W, Weiner M, Morrow D, Stroupe KT, Wu J, Clark D, Smith F, Gradus-Pizlo I, Weinberger M, Brater DC. Pharmacist intervention to improve medication adherence in heart failure: a randomized trial.	1	1	1	0	3
34	Rosen MI, Dieckhaus K, McMahon TJ, Valdes B, Petry NM, Cramer J, Rounsaville B. Improved adherence with contingency management. AIDS Patient Care STDS. 2007 Jan;21(1):30-40. PubMed PMID: 17263651.	0	0	1	0	1

Paper count	References	Selection bias	Attrition bias	Reporting bias	Contamination of control group	Score
35	Mooney ME, Sayre SL, Hokanson PS, Stotts AL, Schmitz JM. Adding MEMS feedback to behavioral smoking cessation therapy increases compliance with bupropion: a replication and extension study.	0	0	0	0	0
36	Wagner GJ, Kanouse DE, Golinelli D, Miller LG, Daar ES, Witt MD, Diamond C, Tilles JG, Kemper CA, Larsen R, Goicoechea M, Haubrich RH	0	1	0	1	2
37	Williams AB, Fennie KP, Bova CA, Burgess JD, Danvers KA, Dieckhaus KD. Home visits to improve adherence to highly active antiretroviral therapy: a randomized controlled trial.	1	1	0	1	3
38	Marquez-Contreras E, Martell-Claros N, Gil-Guillén V, de la Figuera-Von Wichmann M, Casado-Martínez JJ, Martín-de Pablos JL, Figueras M, Galera J, Serra A; Compliance Group of the Spanish Society of hypertension (SEE). Efficacy of a home blood pressure m	1	1	1	0	3
39	Kozuki Y, Schepp KG. Visual-feedback therapy for antipsychotic medication adherence. Int Clin Psychopharmacol. 2006 Jan;21(1):57-61. PubMed PMID: 16317318.	0	0	1	-1	0
40	Andrade AS, McGruder HF, Wu AW, Celano SA, Skolasky RL Jr, Selnes OA, Huang IC, McArthur JC. A programmable prompting device improves adherence to highly active antiretroviral therapy in HIV-infected subjects with memory impairment.	0	1	1	1	3

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<b>41</b>	Schmitz JM, Sayre SL, Stotts AL, Rothfleisch J, Mooney ME. Medication compliance during a smoking cessation clinical trial: a brief intervention using MEMS feedback.	0	-1	0	1	<b>0</b>
<b>42</b>	Portsmouth SD, Osorio J, McCormick K, Gazzard BG, Moyle GJ. Better maintained adherence on switching from twice-daily to once-daily therapy for HIV: a 24-week randomized trial of treatment simplification using stavudineprolonged-release capsules. HIV Med	0	1	1	1	<b>3</b>
<b>43</b>	Remien RH, Stirratt MJ, Dolezal C, Dognin JS, Wagner GJ, CarballoDieguez A, El-Bassel N, Jung TM	1	0	0	1	<b>2</b>
<b>44</b>	Rathbun RC, Farmer KC, Stephens JR, Lockhart SM. Impact of an adherence clinic on behavioral outcomes and virologic response in treatment of HIV infection: a prospective, randomized, controlled pilot study.	1	1	1	-1	<b>2</b>
<b>45</b>	Weber R, Christen L, Christen S, Tschopp S, Znoj H, Schneider C, Schmitt J, Opravil M, Günthard HF, Ledergerber B; Swiss HIV Cohort Study. Effect of individual cognitive behaviour intervention on adherence to antiretroviral therapy: prospective randomize	1	1	0	1	<b>3</b>

Paper count	References	Selection bias	Attrition bias	Reporting bias	Contamination of control group	Score
46	Rawlings MK, Thompson MA, Farthing CF, Brown LS, Racine J, Scott RC, Crawford KH, Goodwin SD, Tolson JM, Williams VC, Shaefer MS; NZTA4006 Helping to Enhance Adherence to Antiretroviral Therapy (HEART) Study Team. Impact of an educational program on effi	0	1	0	1	2
47	Smith SR, Rublein JC, Marcus C, Brock TP, Chesney MA. A medication self-management program to improve adherence to HIV therapy regimens. 2003 Jun;50(2):187-99. PubMed PMID: 12781934.	0	0	0	1	1
48	Rapoff MA, Belmont J, Lindsley C, Olson N, Morris J, Padur J. Prevention of nonadherence to nonsteroidal anti-inflammatory medications for newly diagnosed patients with juvenile rheumatoid arthritis. .	0	-1	1	0	0
49	Hyder SM, Persson LA, Chowdhury AM, Ekström EC. Do side-effects reduce compliance to iron supplementation? A study of daily- and weekly-dose regimens in pregnancy.	0	-1	0	1	0
50	Frick PA, Lavreys L, Mandaliya K, Kreiss JK. Impact of an alarm device on medication compliance in women in Mombasa, Kenya. . 2001 May;12(5):329-33. PubMed PMID: 11368808.	1	1	0	1	3
51	Rigsby MO, Rosen MI, Beauvais JE, Cramer JA, Rainey PM, O'Malley SS, Dieckhaus PD, Rounsaville BJ	1	0	0	1	2

Paper count	References	Selection bias	Attrition bias	Reporting bias	Contamination of control group	Score
51	Rigsby MO, Rosen MI, Beauvais JE, Cramer JA, Rainey PM, O'Malley SS, Dieckhaus PD, Rounsaville BJ	1	0	0	1	2
52	Fulmer TT, Feldman PH, Kim TS, Carty B, Beers M, Monlina M, Putnam M	1	0	0	1	2
52	Fulmer TT, Feldman PH, Kim TS, Carty B, Beers M, Monlina M, Putnam M	1	0	0	1	2
53	Berkovitch M, Papadouris D, Shaw D, Onuaha N, Dias C, Olivieri NF. Trying to improve compliance with prophylactic penicillin therapy in children with sickle cell disease. 1998 Jun;45(6):605-7. PubMed PMID: 9663818; PubMed Central PMCID: PMC1873646.	0	-1	1	0	0
54	Wall TL, Sorensen JL, Batki SL, Delucchi KL, London JA, Chesney MA. Adherence to zidovudine (AZT) among HIV-infected methadone patients: a pilot study of supervised therapy and dispensing compared to usual care.	0	1	1	1	3
55	Berg J, Dunbar-Jacob J, Sereika SM. An evaluation of a self-management program for adults with asthma.	1	0	1	0	2
56	Ogedegbe, G., et al. "A practice-based trial of motivational interviewing and adherence in hypertensive African Americans."	1	1	0	0	2
57	Burgess SW, Sly PD, Devadason SG. Providing feedback on adherence increases use of preventive medication by asthmatic children.	1	1	0	1	3

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<b>58</b>	Leenen FH, Wilson TW, Bolli P, Larochelle P, Myers M, Handa SP, Boileau G, Tanner J. Patterns of compliance with once versus twice daily antihypertensive drug therapy in primary care: a randomized clinical trial using electronic monitoring.	1	1	1	1	<b>4</b>
<b>59</b>	Wilson IB, Laws MB, Safren SA, Lee Y, Lu M, Coady W, Skolnik PR, Rogers WH. Provider-focused intervention increases adherence-related dialogue but does not improve antiretroviral therapy adherence in persons with HIV.	0	0	0	1	<b>1</b>
<b>60</b>	Cramer, J. A. and R. Rosenheck. "Enhancing medication compliance for people with serious mental illness."	0	0	1	1	<b>2</b>
<b>61</b>	Kardas, P. "The DIACOM study (effect of Dosing frequency of oral Antidiabetic agents on the COMpliance and biochemical control of type 2 diabetes)."	0	0	1	1	<b>2</b>
<b>62</b>	Kardas, P. "Comparison of once daily versus twice daily oral nitrates in stable angina pectoris."	0	1	1	1	<b>3</b>
<b>63</b>	Andrejak, M., et al. "Electronic pill-boxes in the evaluation of antihypertensive treatment compliance: comparison of once daily versus twice daily regimen." Am J Hypertens 13.2 (2000): 184-90.	0	1	1	1	<b>3</b>

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64	Vrijens, B., et al. "Effect of intervention through a pharmaceutical care program on patient adherence with prescribed once-daily atorvastatin." <i>Pharmacoepidemiol Drug Saf</i> 15.2 (2006): 115-21.	1	0	1	1	3
65	Bouvy, M. L., et al. "Effect of a pharmacist-led intervention on diuretic compliance in heart failure patients: a randomized controlled study."	1	1	0	1	3
66	Bruin M. de, H. J. Hospers, G. J. van Breukelen, G. Kok, W. M. Koevoets, and J. M. Prins. Electronic monitoring-based counseling to enhance adherence among HIV-infected patients: a randomized controlled trial. <i>Health Psychol.</i> 29 (4):421-428, 2010.	1	1	0	-1	1
67	M. M. Holstad, C. Dilorio, M. E. Kelley, K. Resnicow, and S. Sharma. Group motivational interviewing to promote adherence to antiretroviral medications and risk reduction behaviors in HIV infected women. <i>AIDS Behav.</i> 15 (5):885-896, 2011.	1	1	1	-1	2
68	T. M. Ruppap. Randomized pilot study of a behavioral feedback intervention to improve medication adherence in older adults with hypertension. <i>J Cardiovasc.Nurs.</i> 25 (6):470-479, 2010.	1	0	1	1	3

Paper count	References	Selection bias	Attrition bias	Reporting bias	Contamination of control group	Score
69	L. A. Adler, L. R. Lynch, D. M. Shaw, S. P. Wallace, M. A. Ciranni, A. M. Briggie, A. Kulaga, K. E. O'Donnell, and S. V. Faraone. Medication adherence and symptom reduction in adults treated with mixed amphetamine salts in a randomized crossover study. <i>Postgrad.Med.</i> 123 (5):71-79, 2011.	0	1	0	1	2
70	E. M. Clerisme-Beaty, S. J. Bartlett, W. G. Teague, J. Lima, C. G. Irvin, R. Cohen, M. Castro, R. A. Wise, and C. S. Rand. The Madison Avenue effect: how drug presentation style influences adherence and outcome in patients with asthma. <i>J Allergy Clin Immunol.</i> 127 (2):406-411, 2011.	0	0	1	1	2
71	F. M. Ducharme, R. L. Zemek, D. Chalut, D. McGillivray, F. J. Noya, S. Resendes, L. Khomenko, R. Rouleau, and X. Zhang. Written action plan in pediatric emergency room improves asthma prescribing, adherence, and control. <i>Am J Respir.Crit Care Med.</i> 183 (2):195-203, 2011.	1	1	1	1	4
72	B. A. Yentzer, R. A. Ade, J. M. Fountain, A. R. Clark, S. L. Taylor, A. B. Fleischer, Jr., and S. R. Feldman. Simplifying regimens promotes greater adherence and outcomes with topical acne medications: a randomized controlled trial. <i>Cutis.</i> 86 (2):103-108, 2010.	0	1	0	1	2

Paper count	References	Selection bias	Attrition bias	Reporting bias	Contamination of control group	Score
73	J. M. Simoni, W. T. Chen, D. Huh, K. I. Fredriksen-Goldsen, C. Pearson, H. Zhao, C. S. Shiu, X. Wang, and F. Zhang. A preliminary randomized controlled trial of a nurse-delivered medication adherence intervention among HIV-positive outpatients initiating antiretroviral therapy in Beijing, China. <i>AIDS Behav.</i> 15 (5):919-929, 2011.	1	-1	1	-1	0
74	H. A. van-Onzenoort, W. J. Verberk, A. A. Kroon, A. G. Kessels, P. J. Nelemans, P. H. van-der-Kuy, C. Neef, and P. W. de-Leeuw. Effect of self-measurement of blood pressure on adherence to treatment in patients with mild-to-moderate hypertension. <i>Journal of hypertension</i> 28:622-627, 2010.	0	0	0	1	1
75	H. R. Bogner and H. F. de-Vries. Integrating type 2 diabetes mellitus and depression treatment among African Americans: a randomized controlled pilot trial. <i>The Diabetes educator</i> 36:284-292, 2010.	0	0	0	1	1
76	A. J. Apter, X. Wang, D. K. Bogen, C. S. Rand, S. McElligott, D. Polsky, R. Gonzalez, C. Priolo, B. Adam, S. Geer, and Have T. Ten. Problem solving to improve adherence and asthma outcomes in urban adults with moderate or severe asthma: a randomized controlled trial. <i>The Journal of allergy and clinical immunology</i> 128:516-523, 2011.	1	0	1	-1	1

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77	Cristian Pop-Eleches, Harsha Thirumurthy, James P. Habyarimana, Joshua G. Zivin, Markus P. Goldstein, Damien de Walque, Leslie MacKeen, Jessica Haberer, Sylvester Kimaiyo, John Sidle, Duncan Ngare, and David R. Bangsberg. Mobile phone technologies improve adherence to antiretroviral treatment in a resource-limited setting: A randomized controlled trial of text message reminders. AIDS 25 (6):825-834, 2011.	1	1	0	1	3
77	Cristian Pop-Eleches, Harsha Thirumurthy, James P. Habyarimana, Joshua G. Zivin, Markus P. Goldstein, Damien de Walque, Leslie MacKeen, Jessica Haberer, Sylvester Kimaiyo, John Sidle, Duncan Ngare, and David R. Bangsberg. Mobile phone technologies improve adherence to antiretroviral treatment in a resource-limited setting: A randomized controlled trial of text message reminders. AIDS 25 (6):825-834, 2011.	1	1	0	1	3
77	Cristian Pop-Eleches, Harsha Thirumurthy, James P. Habyarimana, Joshua G. Zivin, Markus P. Goldstein, Damien de Walque, Leslie MacKeen, Jessica Haberer, Sylvester Kimaiyo, John Sidle, Duncan Ngare, and David R. Bangsberg. Mobile phone technologies improve adherence to antiretroviral treatment in a resource-limited setting: A randomized controlled trial of text message reminders. AIDS 25 (6):825-834, 2011.	1	1	0	1	3

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78	L. L. Sabin, M. B. DeSilva, D. H. Hamer, K. Xu, J. Zhang, T. Li, I. B. Wilson, and C. J. Gill. Using electronic drug monitor feedback to improve adherence to antiretroviral therapy among HIV-positive patients in China. <i>AIDS Behav.</i> 14 (3):580-589, 2010.	1	1	0	-1	1
79	M. Y. Hou, S. Hurwitz, E. Kavanagh, J. Fortin, and A. B. Goldberg. Using daily text-message reminders to improve adherence with oral contraceptives: a randomized controlled trial. <i>Obstet.Gynecol.</i> 116 (3):633-640, 2010.	1	1	0	1	3